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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/932,644	08/17/2001	Jeffrey Jay Jacobsen	03424.P017	6318

8791 7590 04/06/2005

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EXAMINER

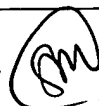
RAO, SHRINIVAS H

ART UNIT	PAPER NUMBER
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2814

DATE MAILED: 04/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/932,644	Applicant(s) JACOBSEN, JEFFREY JAY 	
	Examiner Steven H. Rao	Art Unit 2814	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15-23,27 and 29-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 15-23,27 and 29-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 January 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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Detailed Action

Priority

Receipt is acknowledged of appear submitted under 37 CFR 1.114 claiming priority from U.S. Serial No. 09/932644 filed on October 17, 2001 which papers have been placed of record in the file.

Request for Continued Examination Application (RCE)

The request filed on January 18, 2005 for a Request for continued Examination Prosecution Application (RCE) under 37 CFR 1.114 based on parent Application No. 09/932644 has been entered on January 27, 2005 and is acceptable and a RCE has been established . An action on the RCE follows.

Information Disclosure Statement

No further IDS has been filed after the one filed on November 10, 2004.

Preliminary Amendment Status

Acknowledgement is made of entry of the amendment filed along with the request for RCE on January 18, 2005 .

Therefore claims 15 and 18 as presently amended and presently newly added claim 31 and claims 16 to 23 and 27-30 as previously recited are currently pending in the Application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15 to 21, 23, 27 and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duthaler et al. (U.S. Patent No. 6,312, 304, herein after Duthaler) in view of Falls et al. (WO. Patent No. 97/05556, herein after Falls) as previously applied and further in view of Smith . (U.S. Patent No.. 5,545, 291, herein after Smith also cited by applications in their specification).

With respect to claim 15 describes a method of manufacturing a flexible display panel (Duthaler col. 2 lines 26-27) comprising : depositing a plurality of shaped blocks onto a flexible substrate, (Duthahler col. 2 lines 24-27) .

Duthaler does not specifically describe its flexible strip as having flexible substrate having a plurality of recessed regions configured to receive said plurality of shaped blocks therein .

However Smith , a patent from the same filed of endeavor describes in figures 1-156 etc, and col. 5 lines 14-35 etc. describes having a plurality of recessed regions configured to receive said plurality of shaped blocks therein to provide a method of assembling a microstructure on to a substrate that is compact, low cost, efficient, reliable and requires little maintenance.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Smith's a plurality of recessed regions configured to receive said plurality of shaped blocks. In Duthaler's method, the motivation to include the above substitution is therein to provide a method of assembling a microstructure on to a substrate that is compact, low cost, efficient, reliable and requires little maintenance.

The remaining limitations of claim 15 are :

each of said shaped blocks comprising a circuit element for driving a picture element (Duthaler fig. 2 # 24, col. 4 line 2)

Duthaler does not specifically describe the coupling of a receiver to the plurality of shaped blocks on the flexible layer.

However Falls in figure figures 1,6,7 and pages 27 lines 7 to 12 describes the coupling of a receiver to the plurality of shaped blocks on the flexible layer to automate real-time information display, dynamic printed information display and shelf-space management .

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Fall's receiver coupled to the plurality of blocks on the flexible layer to automate real-time information display, dynamic printed information display and shelf-space management. (Falls page 9 lines 18-27).

The remaining elements of claim 15 :

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the receiver to cause each of said shaped blocks to drive the picture element (Duthaler col. 4 lines 12-29, fig. 8a to 11 # 136,142, col. 7 lines 8 to 37).and coupling a display panel to the flexible substrate.

With respect to claim 16 Duthaler describes the method of claim 15, wherein said flexible display panel conforms to a desired shape of an object when said flexible display panel is attached to said object (Falls page 1 lines 3 to 34).

With respect to claim 17 Duthaler describes the method of claim 15, wherein each of said shaped blocks comprises an active circuit element, which drives a picture element. (Falls figs. 1,6 and 7 , page 10 lines 15-20).

With respect to claim 18 Duthaler describes the method of claim 15, further comprising: coupling a display generation substrate to said flexible substrate.(Falls fig. 13 , page 58 lines 6 to 29).

With respect to claim 19 Duthaler describes the method of claim 15, wherein said flexible display panel comprises an active matrix display back plane which comprises at least one electrode for each picture element. (Duthaler figure 8a , col. 7 one lines 8 to 53)

With respect to claim 20 , Duthaler describes The method of claim 15, wherein said flexible display panel is conformal. (i.e. as defined in the specification page 5 section (0017) they may receive information in order to alter or configure display Falls page 27, lines 17 to 20).

With respect to claim 21, Duthaler describes the method of claim 15, wherein the

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flexible display panel has an organic light emitting diode. Duthaler col.8 lines 44).

With respect to claim 23, Duthaler describes the method of claim 15, wherein the receiver is a RF wireless transponder receiver (Falls page 3 lines 17 to19).

With respect to claim 27 Duthaler describes a method of manufacturing a flexible display panel depositing a plurality of blocks onto a web material defined by a length 50 times greater than its width, each of said blocks comprises an electronic device for driving a picture element', and coupling a receiver to the plurality of blocks on the web material. (Duthalier col. 2 lines 27-45, Falls figs. 1,6 and 7,etc.).

With respect to claim 31, Duthaler describes the method of claim 15 wherein each of shaped block comprises single crystal silicon. (well known in the art to form FETS capacitors (which the specification stated the block forms) of single crystal silicon material – see Wolf text book etc.).

B. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Duthaler et al. (U.S. Patent No. 6,312, 304, herein after Duthaler), Falls S et al. (WO. Patent No. 97/05556, herein after Falls) and Smith (U.S. Patent No. 5,545,291, herein after Smith) as applied to claims 15-21 , etc. and further in view of Bischel et al. (U.S. Patent No. 5,664,032 herein after Bischel).

With respect to claim 22, Duthaler describes The method of claim 15. Duthaler and Falls do not specifically mention the flexible display panel as comprising up conveding phosphor.

However Bischel in col. 94 lines 5-10 describes up conveding phosphor to radiate desired display color by channeling light through padicular wavelength by wave

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guides and thus eliminate the need for a separate diffusing screen.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include Bischel's up conveding phosphor in Duthaler and Falls S's method to radiate desired display color by channeling light through particular wavelength by wave guides and thus eliminate the need for a separate diffusing screen. (Bischel col. 94 lines 8-10).

Response to Arguments

Applicants' arguments are moot Applicant's arguments with respect to claims 15-30 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven H. Rao whose telephone number is (571) 272-1718. The examiner can normally be reached on 8.00 to 5.00.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'SR', with a stylized flourish extending to the right.

Steven H. Rao

Patent Examiner

March ³¹~~23~~, 2005.